

Cardi-Act1

GGAATTCGGCAGGAGGCCACCTCAGAGGA GGAGGGTCTGCTGCTGGGAGTTAATTAG 60
CCTTAAGCCGTGCTCCGGTGGGAGTCTCCT CCTCCAGGACGGACGACCTCAATTAATC

CCTCGGAGCGCGGAGGGGGAGGCGCCAG TTTTCTGGGGACACTGGCGGCCACTGTGCG 120
GGAGCGCTCGCCGCTCCCCCTCCGCGGTC AAAAGACCCCTGTGACCGCGGTGACACGC

TCCTCTACCCAAGGGAGCTCCCAAGAGT TGGATGAATTCTGGGTTGTTAGCTGCTGTC 180
AGGAGGATGGGTTCCCTCGAGGGGTTCTCA ACCTACTTAAGACCAACAATCGACGACAG

CTCTGGGCTCCCGGAGCCAGTTTCTGGTG GAAAGCGGGCGCCTGGCCAACGACCAGCG 240
GAGACCGAGGGCCCTCGGTCAAAGACCAC CTTTCGCCCCGCGGACCGGTTGCTGGTCCG

GCTTGCTGAGACTCACCATGACACTCCTGG GGTCTGAACACTCTTTGCTGATTAGAAGGA 300
CGAACGACTCTGAGTGGTACTGTGAGGACC CCAGACTTGTGAGAAACGACTAATCTTCT

AGTTCGGATCAGTCTTACAGTTACGGCTTC AACAGAGAAGGACCCAGGAGCAGCTGGCTA 360
TCAGGGTAGTCAGAATGTCAATGCCGAAG TTGTCTCTTCTGGGTCTCGTCGACCGAT

ACCAAGGCTTAATACCGCCACTGAAAGGTC CAACTGAATTCCATGACCCGAGAAAACAAT 420
TGTTCCGAATTATGGCGGTGACTTTCCAG GTTGACTTAAGGTACTGGGCTCTTTTGTTA

TGGATAGTGCCAAGACTGAAGATTCCCTGA GCGCAAGGCGAGAAACAGGTCCGACCGTG 480
ACCTATCACGGTTCTGACTTCTAAGGGACT CCGCGTTCGCGCTTTGTCCAGGCTGGCAC

CCAGCCTGGTTACTATGCACATTCTCCAAG CCTCCACGGCAGAAAGGTCCATTCCAATG 540
GGTCGGACCAATGATACGTGTAAGAGGTTG GGAGGTGCCGTCTTTCCAGGTAAGGTTGAC

CTCAGATGAAGCTCAAAGAGCCCGCCTTG CAGATGACCTCAATGAGAAGATCGCTCTCC 600
GAGTCTACTTCGAGTTTCTCGGGCGGAAC GTCTACTGGAGTTACTCTTCTAGCGAGAGG

GCCAAGGCCCTTGGAAGTGGTGGAGAAGAA CATTCTGCCGATGGATTCTTCGTTGAAAGA 660
CGGTTCCGGGAACCTTGACCACCTCTTCTT GTAAGACGGCTACCTAAGAAGGCATTTCT
M D S S V K E

GGCTATAAAAGGTACTGAGGTGAGCCTCTC CAAGGCAGCAGATGCATTGCGCTTTGAGGA 720
CCGATATTTTCCATGACTCCACTCGGAGAG GTTCCGTCGTCTACGTAAGCGGAACTCCT
A I K G T E V S L S K A A D A F A F E D

TGACAGCAGTAGAGATGGGCTCTCTCCAGA TCAGGCTAGGAGCGAGGACCCCGAGGCTC 780
ACTGTGTCATCTCTACCCGAGAGAGGTCT AGTCCGATCCTCGCTCCTGGGGTCCCGAG
D S S R D G L S P D Q A R S E D P Q G S

TACAGGATCCACCCAGACATCAAATCCAC TGAGGCTCCTCTGGACACAATCCAGGATCT 840
ATGTCTTAGGTGGGTCTGTAGTTTAGGTG ACTCCGAGGAGACCTGTGTTAGGTCTAGA
T G S T P D I K S T E A P L D T I Q D L

CACTCTGGCTCAGAAAGTGACAAGAATGA TGCAGCCTCCAGCCAGGCAACCACTCAGA 900
GTGAGGACCGAGTCTTCACTGTTCTTACT ACGTCGGAGGGTCGGTCCGTTGGTCAGTCT
T P G S E S D K N D A A S Q P G N Q S D

CCCTGGGAAGCAGGTTCTCGGCCCTCAG CACCCCGATTCTGTGCACACTGCTGTAAA 960
GGGACCCCTTCGTCCAAGAGCCGGGGAGTC GTGGGGCTAAGGACAGTGTGACGACATTT
P G K Q V L G P L S T P I P V H T A V K

GTCCAAGTCTTTGGGTGACAGTAAGAACCG CCACAAAAGCCCAAGACCCCAACCAAA 1020
CAGGTTTCAGAAACCACTGTCAATTCTTGGC GGTGTTTTTCGGGTTTCTGGGGTTGGTTT
S K S L G D S K N R H K K P K D P K P K

GGTGAAGAAGCTCAAATACCATCAGTACAT CCCCCAGACCAGAAGGCAGAGAAGTCTCC 1080
CCACTTCTTCGAGTTTATGGTAGTCATGTA GGGGGTCTGGTCTTCCGCTCTCTCAGAGG
V K K L K Y H Q Y I P P D Q K A E K S P

CCCCCCTGGACTCTGCCTATGCCCGGCT GCTCCAGCAACAGCAGTATTCCTGCAGCT 1140
GGGTGGGTACCTGAGACGGATACGGGCGGA CGAGGTGCTGTGCTGCGATAAGGACGTCGA
P P M D S A Y A R L L Q Q Q Q L F L Q L

ACAGATCTCTAGCCAGCAGCAGCAACAGCA GCAGCAACAGCAGCAGCAGCAACAGCAGCA 1200
TGCTAGGAGTCGGTCGTCGCTGCTGCTGCT CGTCGTTGCTGCTGCTGCTGCTGCTGCT

FIG. 2

Q I L S Q Q Q Q Q Q Q Q Q Q Q Q Q Q
 GCAGCAGCAGCAGCAGCGTTACGCTACCC TGGGATGCACCAACACACCTCAAAGAACC 1260
 CGTCGTCGTCGTCGTCGCCAAGTCGATGGG ACCCTACGTGGTTGTGTGGAGTTTCTTGG
 Q Q Q Q Q R F S Y P G M H Q T H L K E P
 AAATGAACAGATGGCCAGAAATCCGAATCC TTCTTCAACACCACTGAGCAATACCCCTCT 1320
 TTTACTTGTCTACCGGTCTTTAGGCTTAGG AAGAAGTTGTGGTGACTCGTTATGGGGAGA
 N E Q M A R N P N P S S T P L S N T P L
 ATCCCTGTCAAATAAGCATTTCTGGACA AACTGGTGTCTTCTCTCAAACAGGCCC 1380
 TAGGGGACAGTTTTATCGTAAAGACCTGT TTGACCACAAAGAAGAGAGTTTGGTCCGGG
 S P V K N S I S G Q T G V S S L K P G P
 CCTCCACCCCAACCTGGATGATCTCAAGGT GTCAGAGTTAAGACAACAGCTTCGAATCCG 1440
 GGAGGGTGGGTTGGACCTACTAGAGTTCCA CAGTCTCAATTCTGTTGTCGAAGCTTAGGC
 L P P N L D D L K V S E L R Q Q L R I R
 GGGCTTGCCAGTGTGAGGCACCAAGACAGC GCTGGTGGACCGGCTTCGTCCCTTCCAGGA 1500
 CCCGAACGGTCACAGTCCGTGGTTCTGTGCG CGACCACCTGGCCGAAGCAGGGAAGGTCT
 G L P V S G T K T A L V D R L R P F Q D
 TTGTGCTGGCAACCTGTGCCCAACTTTGG GGACATCACAACCTGTACCTTTCTGTGAC 1560
 AACACGACCGTTGGGACACGGGTGAAACC CTTGTAGTGTGACAGTGGAAAGGACAGTG
 C A G N P V P N F G D I T T V T F P V T
 GCCCAACACCTTGCCAGTTATCAGTCTCT CCGACAGGCTTCTACCACTTTGGCAGCAC 1620
 CGGGTTGTGAACGGGTCAATAGTCAGGAG GGGCTGTCCGAAGATGGTGAAACCGTCGTG
 P N T L P S Y Q S S P T G F Y H F G S T
 AAGTCCAGCCCAACCTATCCCGGCTC ATCTGACTTGTCCGCTGCAGGGTCCCTGCC 1680
 TTCGAGGTGCGGTTGGTAGAGGGGCGGAG TAGACTGAACAGGCGACGTCCAGGGACGG
 S S S P P I S P A S S D L S A A G S L P
 AGACACCTTACCGATGCGTCACCTGGCTT CGGCCTGCACGATCTCCGGTGCCCGCCTG 1740
 TCTGTGGAAGTGGCTACGCAGTGGACCGAA GCCGGACGTGCGTAGAGGCCACGGGCGGAC
 D T F T D A S P G F G L H A S P V P A C
 CACGGACGAGAGTCTGCTGAGCAGCCTGAA TGGGGGCTCGGGCCCTCCGAGCCTGATGG 1800
 GTGCCTGCTCTCAGACGACTCGTCGGACTT ACCCCCGAGCCCGGGGAGGCTCGGACTACC
 T D E S L L S S L N G G S G P S E P D G
 GCTAGACTCTGAGAAGGACAAGATGCTGGT GGAGAAGCAGAAAGTGATCAACCAGCTCAC 1860
 CGATCTGAGACTCTTCTGTTCTAGACCA CCTCTTCGTTCTTCACTAGTTGGTCGAGTG
 L D S E K D K M L V E K Q K V I N Q L T
 CTGGAAGCTGCGGCAAGAGCAGCGGCAGGT GGAAGAGCTGAGAATGCAACTGCAGAAGCA 1920
 GACCTTCGACGCCGTTCTCGTCGCGGTCCA CCTTCTCGACTCTTACGTTGACGCTCTTCTG
 W K L R Q E Q R Q V E E L R M Q L Q K Q
 GAAGAGCAGCTGCAGCGACCAAGGCCACT GCCCTTCTTGGCCACCACCATCAAACAGGA 1980
 CTTCTCGTCGACGTCGCTGGTCTTCGGTGA CGGGAAGAACCGGTGGTGGTAGTTTGTCTT
 K S S C S D Q K P L P F L A T T I K Q E
 AGATGTCTCCAGCTGCCCTTCGCACCCCA GCAGGCGTCTGGAAGGGACAGGGCCACAG 2040
 TCTACAGAGGTCGACGGGAAGCGTGGGT CGTCCGACAGCCCTTCCCTGTCCCGGTGTC
 D V S S C P F A P Q Q A S G K G Q G H S
 CTCTGACAGTCCCCCTCCGGCTTGTGAGAC GGCTCAGCTGCTGCCTCACTGTGTGGAGTC 2100
 GAGACTGTGAGGGGAGGCCGAACACTCTG CCGAGTCGACGACGGAGTGACACACCTCAG
 S D S P P P A C E T A Q L L P H C V E S
 CTCAGGTCAAACCATGTACTCTCGTCCAC GTTCTCAGCCCCAGTGTCCCTCAGCA 2160
 GAGTCCAGTTTGGGTACATGAGAGCAGGTG CAAAGAGTCGGGGTCACGAGGGGAGTCGT
 S G Q T H V L S S T F L S P Q C S P Q H
 CTCGCCCTTGGGGGCTGAAGAGCCCGCA GCACATCAGCCTGCCTCCATCACCCAACA 2220
 GAGCGGGGACCCCGGACTTCTCGGGCGT CGTGTAGTCGGACGGAGGTAGTGGGTGTT
 S P L G G L K S P Q H I S L P P S P N N
 CCATTACTTCTGCTTCTCTTCCGGGAGC TCAGAGAGAACCATGGGGTCTCTTACC 2280

FIG. 2 CONT.

GGTAATGAAGGACCGAAGGAGAAGCCCTCG AGTCTCTCTCTTGGTACCCAGAGAAGTGG
H Y F L A S S S G A Q R E N H G V S S P
CAGCAGCAGCCAAGGGTGGCCACAGATGAC TGGTTTACAATCTTCTGACAAGTGGGGCC 2340
GTCTCGTGGGTGCCACGCTGTCTACTG ACCAAATGTTAGAAGACTGTTCCACCCCGG
S S S Q G C A Q M T G L Q S S D K V G P
AACGTTTCAATTCATCCCCAATTTTTC TAAGTCAAGTTCAGCAGTTTCAGATATCAC 2400
TTGCAAAAGTTAAGGTAGGGGTTGAAAAAG ATTCAAGTTCAGTTCGTAAGTCTATAGTG
T F S I P S P T F S K S S S A V S D I T
CCAGCCCCATCCTATGAAGATGCAGTGAA GCAGCAAATGACTCGGAGTCAGCAGATGGA 2460
GGTCGGGGGTAGGATACTTCTACGTCACTT CGTCGTTTACTGAGCCTCAGTCGTCTACCT
Q P P S Y E D A V K Q Q M T R S Q Q M D
CGAACTCTGGATGTCCTCATTGAAAGTGG AGAAATGCCAGCCGATGCCAGGGAAGATCA 2520
GCTTGAGGACCTACAGGAGTAACCTTCACC TCTTTACGGTCGGCTACGGTCCCTTCTAGT
E L L D V L I E S G E M P A D A R E D H
TTCATGTCTTCAGAAAATTCAAAGATCCC TGGGTCTCTCTGCAGCCCAACTGCCATCCC 2580
AAGTACAGAAGTCTTTTAAAGGTTTCTAGGG ACCCAGGAGGACGTCGGGTGACGGTAGGG
S C L Q K I P K I P G S S C S P T A I P
CCCGAAGCCCTCGGCTTCTTTGAGCAGGC ATCTTCGGGAGGCCAGATGGCCTTCGGTCA 2640
GGGCTTCGGGAGCCGAAGGAACCTGTCGG TAGAAGCCCTCCGGTCTACCGGAAGCCAGT
P K P S A S F E Q A S S G G Q M A F G H
CTACGCCAAGCAGATGACGAACACCTGGA AGTCTTATTGAATCTCACAGCCCCATCGG 2700
GATGCGGTTGCTGTCACTGCTTGTGGACCT TCAGAATACTTAAGAGTGTGCGGGTAGCC
Y A N D S D E H L E V L L N S H S P I G
AAAGGTGAGCGATGTTACCTCTCTCAAAAT CGGAAGCGAGGAGCCTCTTTTGACAGCAT 2760
TTTCACATCGCTACAATGGGAGGAGTTTGA GCCTTCGCTCCTCGGAGGAAAACCTGTCGTA
K V S D V T L L K I G S E E P P F D S I
CATGGATGGCTTCCAGGGAAGGCTGCGGA AGATCTCTTCAGTGCTCAGGAGCTCTTGCC 2820
GTACCTACCGAAGGGTCCCTTCCGACGCCCT TCTAGAGAAGTCACGAGTGCTCGAGAACGG
M D G F P G K A A E D L F S A H E L L P
TGGGCCCCCTCTCCCGATGCATGCACAGTT GTCACCTCTCTGTGGACAGCAGTGGTCT 2880
ACCCGGGGAGAGGGGTACGTACGTGTCAA CAGTGGAGGAAGACACCTGTCGTACCCAGA
G P L S P M H A Q L S P P S V D S S G L
GCAGCTGAGCTTCACGGAATCTCTTGGA AACAAATGGAATGGCTGGACCTCACTCCACC 2940
CGTCGACTCGAAGTGCCTTAGAGGAACCT TTGTTACCTTACCGACCTGGAGTGAGGTGG
Q L S F T E S P W E T M E W L D L T P P
TAGTTCACGCGAGGCTTCAGCAACCTTAC CTCCAGTGGGCCAGCATTTTCAACATCGA 3000
ATCAAGGTGCGGTCCGAAGTCGTTGGAATG GAGGTACCCGGGTGTAAGGTTGTAGCT
S S T P G F S N L T S S G P S I F N I D
TTTTCTGGATGTTACAGATCTTAATCTGAA TTCCCTATGGATCTCCACTTACAGCAGTG 3060
AAAAGACCTACAATGTCTAGAAATAGACTT AAGGGGATACCTAGAGGTGAATGTCGTAC
F L D V T D L N L N S P M D L H L Q Q W
GTAACACCCGAGGTACAAGAGCTACGAGA GCTCAGTGGGAATTCAATGGAGGAAGCAC 3120
CATTGTGGGCTCCATGTTCTCGATGCTCT CGAGTCACCTTAAGTTACCTCCTTTCTGTG
*
GATACCGGAAATGTGTGTTCCAAAAGATGA AGGGGGGAAATGGGAGGGAAAAA 3180
CTATGGCCTTTACACACAAGGTTTTCTACT TCCCCCTTTTACCCCTCCCTTTTTTTTT
ACAGCAACGGAGGTTTTTGTGACAACTAAC CAGAACAACAGAAGTCAGCTATTAAATA 3240
TGTCGTTGCCCTCCAAAACACTGTTGATTG GTCTGTTTGTCTTCAGTCGATAATTTAT
TGTCTAAATGTAATATCTACCAGCATTAG TAACTGTTAATAACTTCAGTGATGCATTCA 3300
ACAGATTACATTATAGATGTCGTAAGTC ATTGACAATTATTGAAGTCACTACGTAAGT
AAAAATGTGCTTTGTGAGAATAAGAAATGCCA AAAATGTTTTTTCGCTGCCTTATCTCATAC 3360
TTTTACACGAAACAGTCTTATTCTTACGGT TTTTACAAAAAGCGAGGAATAGAGTATG

FIG. 2 CONT.

CAGTTTTTTGGGTTTTTTTTGTTTGTGT GTTTTTTGGTTTTTTTTTTTGTGTGTGT 3420
 GTCAAAAAACCCAAAAAACAACACAA CAAAAACCAAAAAAACAACACACACA
 TGTTATTGTTTCTTTTGGCCACAGTT TGTCTCAGGCAATACTGGGACATAGGCTGA 3480
 ACAATAAACCAAAAGAAAAACGGGTGTCAA ACAGAGTCCGTTATGACCCTGTATCCGACT
 CCCCATTAGCTTTTGTATGAATTTACTAA ACTTTCTGTGGAAGGAGAACAGAGCCTCTG 3540
 GGGGTAATCGAAAAACAATACITTAATGATT TGAAAGACACCTTCTCTTGTCTCGGAGAC
 CCGCGGGTGTGGGGAAGCCATCCTGTGCTT GAGGAGCAGACAGTGTGTCCATCATCATCA 3600
 GGGCCCCACACCCCTTCGGTAGGACACGAA CTCCGTCGTGTGCACACAGGTAGTAGTAGT
 GTCAGAAGAGCAGGGCCTGTCTCACCCTAAT CGAGTCCTTAAGACAGAATAATCAGAATGG 3660
 CAGTCTTCTCGTCCCGACAGAGTGGGTTA GCTCAGGAATTCTGTCTTATTAGTCTTACC
 TCAGAGGGACAGACCAATCAATTCCAGGA AAGCAAAAGTGAATCAATGTCCCTTGACTC 3720
 AGTCTCCCTGTCTGGTTAGTTAAGGGTCTT TTCGTTTTCTAGTGTACAGGGAAGTGTG
 CCAATAGTCCCACTGGACTGGTGTGACTCT GGTGACAACTAAGTGTGTCCAGAGAA 3780
 GGTTTACAGGGTGACCTGACCACTAGTGA CCACTGTGATTGATCGAAACAGGTCTCTT
 TCCACCCAGAACACGGTGTCTTTTAGCCAG TAGTCCACCTCTATGTGCATCAGCAATGCA 3840
 AGGTGGGTCTTGTGCCACGAAAAATCGGTC ATCAGGTGGAGATACAGTAGTCTGTTACGT
 TAGCAGGTGAGAACTTGAATCAGAAAACT TCATGCCATGGATGGAGACTCCTGAGGCGC 3900
 ATCGTCCACTCTTGAACITTAGTGTCTTTGA AGTACGGTACCTACCTCTGAGGACTCCGCG
 TCAAATACTACTACCTCTAGTTCCAAAGAC TAGAGCTAGATGATCAGAAAGGCAACTGGA 3960
 AGTTTATGATGATGGAGATCAAGGTTCTG ATCTCGATCTACTAGTCTTCCGTTGACCT
 GGCCAGGAGCGGCTACTGGGACAAGTTAG AATTAGAGAACGATGTCTTTAACATTCCG 4020
 CCGGGTCCCTCGGCATGACCTGTTCATC TTAATCTCTGTGTACAGTAAATTTGAAGGC
 AGAAAGAAATAACCATGAATTGCTATTACA GGAGTAACACACAGGGCCAGCTTCTTTTTT 4080
 TCTTTCTTTATTGGTACTTAACGATAATGT CCTCATTGTGTGCCCGGTGGAAGAAAAA
 CTTCTTTTTTATTTTCTTTCTTTATTGTG AGCAGAGGGAATTCACCTCAGTTCATCTTT 4140
 GAAGAAAAATAAAAGAAAAAATAACAC TCGTCTCCCTTAAGTGGAGTCAAGTAGAAA
 CTCTCAGTACTTTCTTTCAAGATATCAAT CCTTTATGACTCTTTTGTCTTTTAATTCTCT 4200
 GAGAGTCATGAAAGAAAGTTCTATAGTTA GGAAATACTGAGAAACGAAATTAAGAGA
 CTCTCTCTCTCTCTCTCTCTCTCTCTCT CTCTCAAAGGAGAGGTTTCAGTTCTAACAA 4260
 GAGAGAGAGAGAGAGAGAGAGAGAGAGAA GAGAGTTTCTCTCTCAAAGTCAAGATTGTT
 GCTACCATAGTCTTATTAAGCCATTTTTT TTTTAGAATATTAAAGTCCAAACTCTCT 4320
 CGATGGTATCAGGATAATTTCCGGTAAAAA AAAAATCTTATAATTTTCAGGTTTGAGAGA
 TGCCAAACTCTTTCTTCACATGCGCATTGG CTGAAACAGAAATTACAGAATTTCTTTA 4380
 ACGGTTTGAGAAAGAAGTGACGCGTAACC GACTTTTGTCTTAATGTTCTTAAAGAAAT
 GGAAGAACTGGGATGTGGCCCATTTGGTC ACAAAGTTTTTTGTTTGTGTTTTGTTT 4440
 CCTTCTTTGACCCCTACACCGGGTAACCAG TGTTCAAAAAACAACAAAAACAACAAAC
 TTTCAATTCTTGTGTTGATTATGACAATC TTTGGTTGTGATTGCTCTGGAGAAATTGGA 4500
 AAAGTTAAGAACAACTAAATACCTGTTAG AAACCAACATAACGAGACCTCTTTAACCT
 AATCATTGCAGAGTGAAGATAAATCAGGGC ACCATGTATAGTAGAGAATGTTTCAGTAGT 4560
 TTAGTAACGCTCTCACTTCTATTAGTCCCG TGGTACATATCATCTTACAAAGTCATCA
 TTTCCAAACAGAACACAATGCACACTGT AAACAACAGGAGTGTGAAGGACCACAGTCT 4620
 AAAGGTTTGTCTTCTGTGTTAACGTGTGACA TTTGTTGTCTCACACTTCTGGTGTGAGA
 TGAGGAGTTCTTGTGTCCTGTGTTTGGTG AAGGCGTTGGGACCGAGGAAGACAACATA 4680
 ACTCCTCAGAACCAACGGGACACAAACCAC TTCCGAACCCCTGGCTCCTTCTGTTGTAT
 CAGTTTGGCCAAGGCTCTCAGAGGCTTGCT GTGGCGCAATTCAAGTATTACAATGTTGC 4740
 GTCAAACCGGTTCCGAGAGTCTCCGAACGA CACCGCGTTAAGTTCATAATGTTACAACG
 ATGCTGTAGAAAGTAGCTGTGCTGTGTTT TTTGTTTGTGTTTAAATTAAGTACCAAGGC 4800
 TACGACATCTTTCATCGACAACGACAACAA AACAAACAAAATTAATTCAGTGGTTCCG

FIG 2 CONT.

ACTGTTTTATTCTTTGTAAAAAAAAAAAA AGTTCACTGTGCACTTATAGAGAAAAATAAT 4860
TGACAAAATAAGAAAAACATTTTTTTTTTT TCAAGTGACACGTGAATATCTCTTTTATTA
CAACAATGTTGTGAATTTTGTAGAAGACTT TTTTTTTTTGTAAACCAAAGATTTAGAA 4920
GTTGTTACAACACTTAAAAACTCTTCTGAA AAAAAAAAAAACTATTGGTTTCTAAATCTT
ATCATTCCATTGTCAACTTGTAAAAAAAAA AAAAAAAAAA
TAGTAAGGTAACAGTTGAACATTTTTTTTT TTTTTTTT

FIG. 2 CONT.

[illegible]

FIG. 3

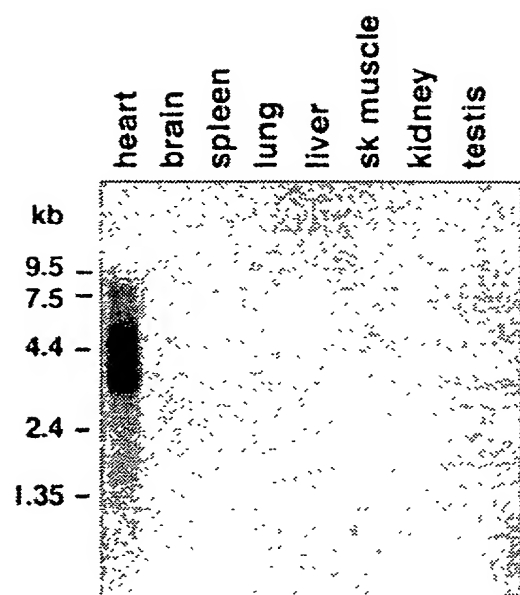


FIG. 4

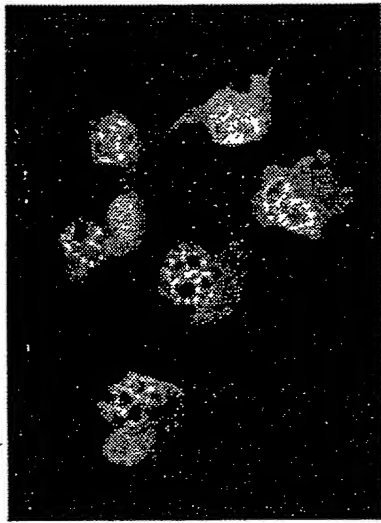


FIG. 5

Cardi-Act Domain Structure

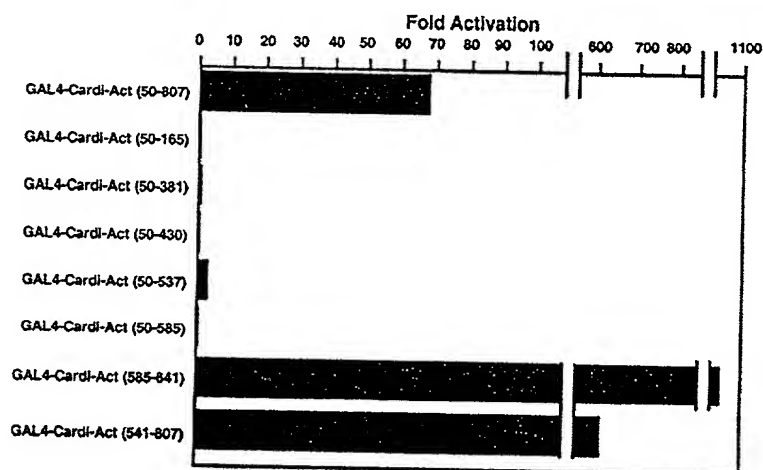
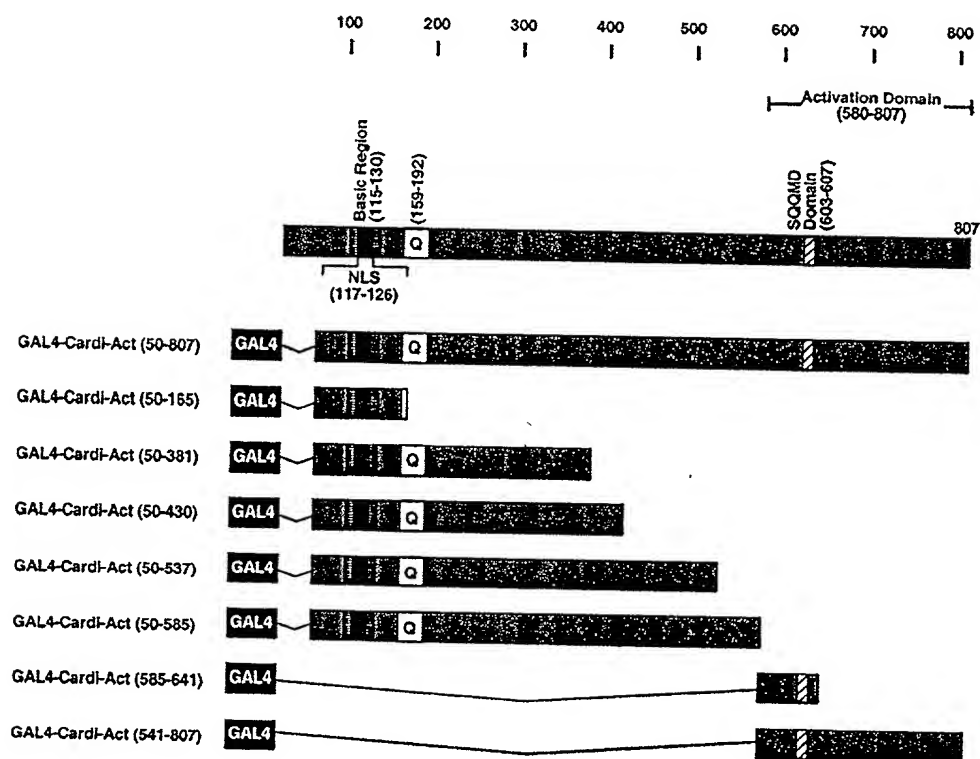


FIG. 6

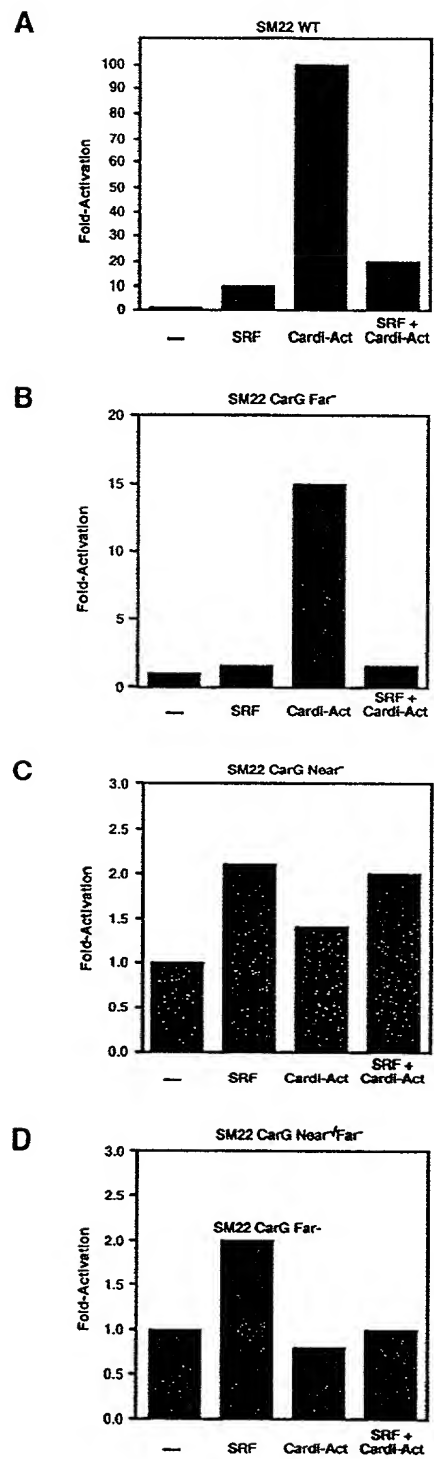


FIG. 7

Cardi-Act and MEF2C Cooperatively Transactivate MLC-2V Promoter (Cos Cell)

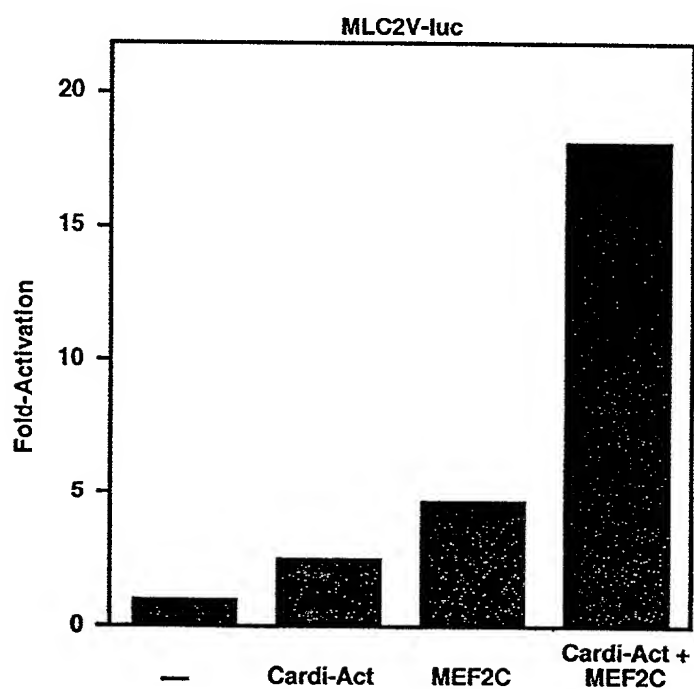


FIG. 8

Repression of myocardin activity by GATA4

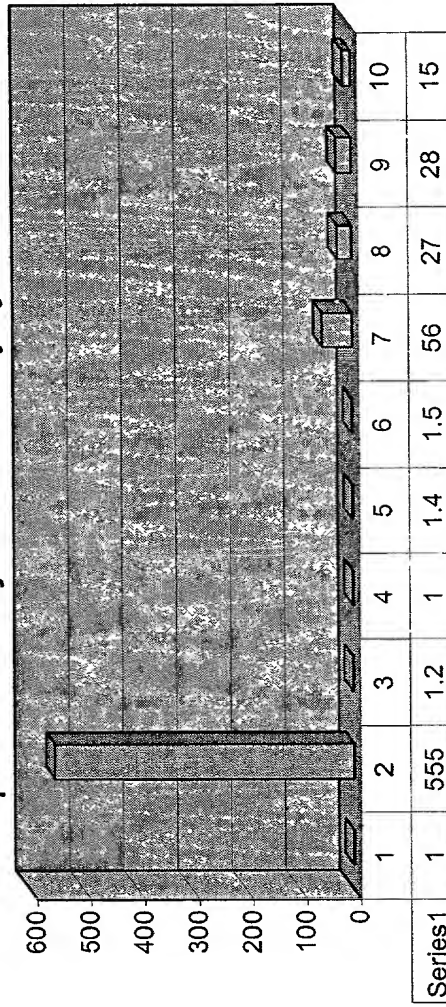


FIG. 9

Cardi-Act and Nkx2.5 Cooperatively Transactivate α -MHC Promoter (Cos Cell)

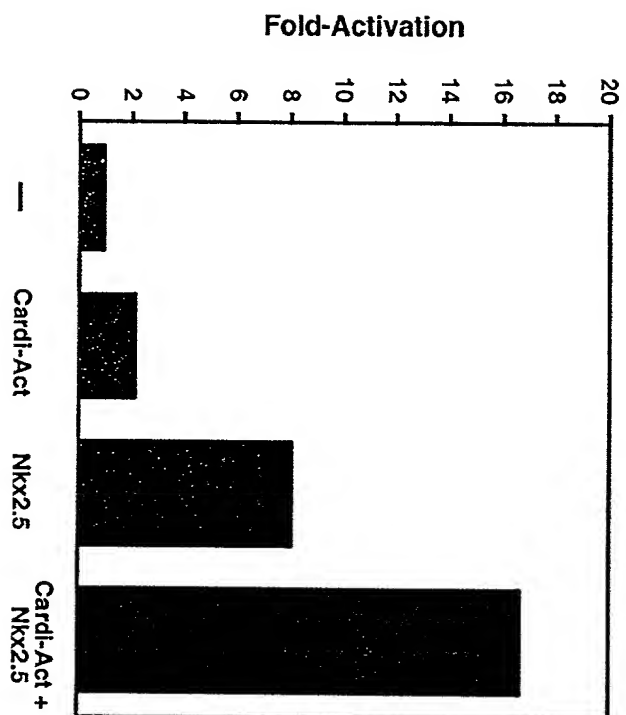
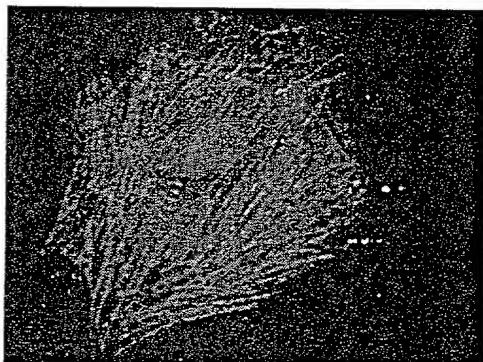


FIG. 10

Myocardin Induces Cardiomyocyte Hypertrophy

Actinin

Ad-LacZ



Ad-Myocardin

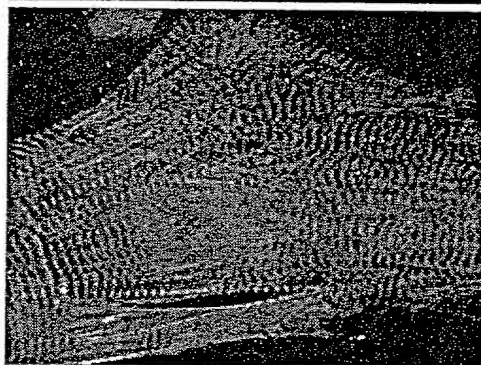


FIG. 11

Myocardin Induces ANF Expression in Cardiomyocytes

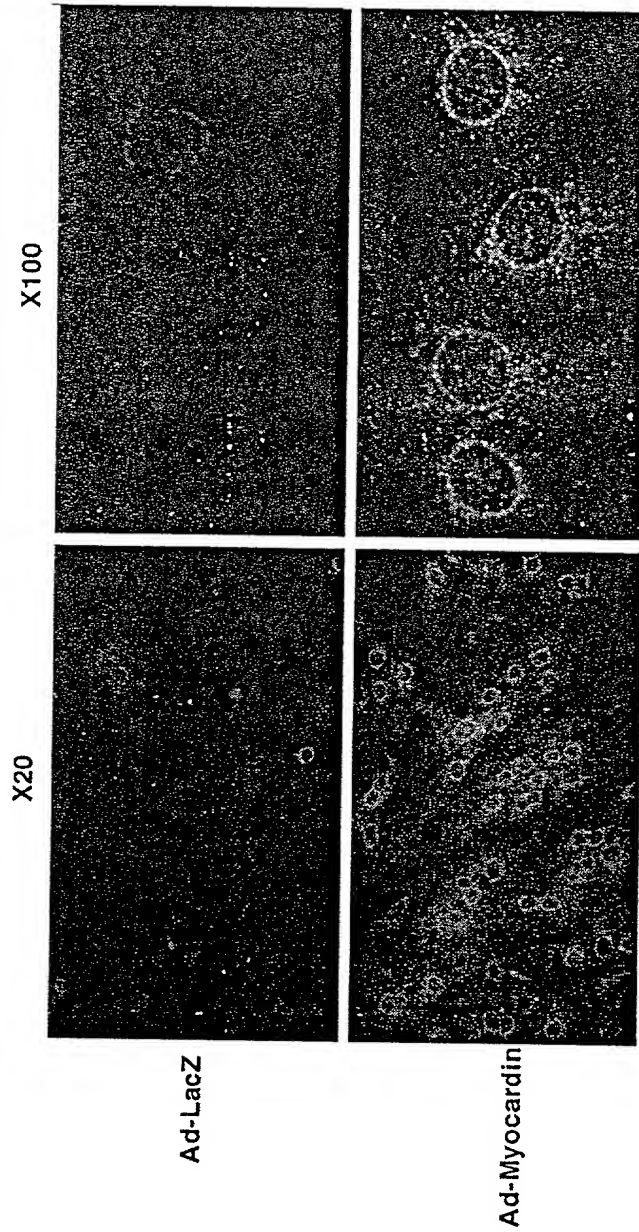


FIG. 12

Transactivation of NKX2.5-Luc by Myocardin and GATA4

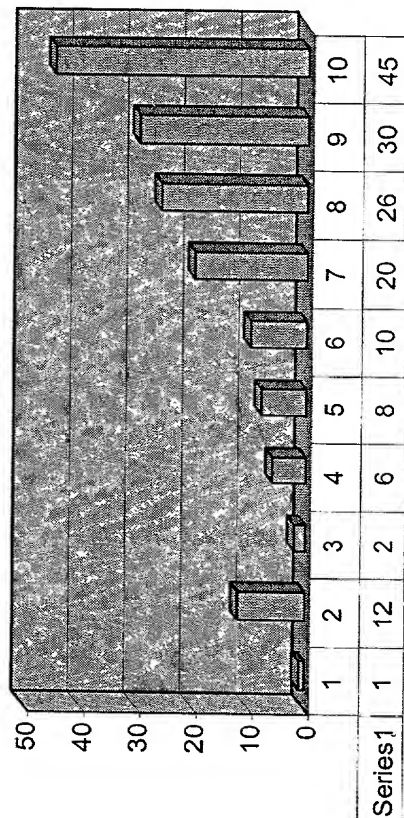


FIG. 13